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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,551	11/08/2001	Santanu Dutta	US018181	8019
7.	590 08/31/2004		EXAMINER	
Corporate Patent Counsel			MALZAHN, DAVID H	
Philips North America Corporation 580 White Plains Road			ART UNIT	PAPER NUMBER
Tarrytown, NY 10591			2124	
			DATE MAIL ED: 08/31/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

DK.

	Application No.	Applicant(s)	\mathcal{M}				
	10/005,551	DUTTA ET AL.					
Office Action Summary	Examiner	Art Unit					
	David H. Malzahn	2124					
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet v	vith the correspondence addres	'S				
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a ply within the statutory minimum of th d will apply and will expire SIX (6) MC te, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this commu ABANDONED (35 U.S.C. § 133).	nication.				
Status							
1) Responsive to communication(s) filed on	•						
2a)☐ This action is FINAL . 2b)⊠ Th	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-20 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	·					
Application Papers							
9)☐ The specification is objected to by the Examir	ner.						
10)⊠ The drawing(s) filed on <u>08 November 2001 ar</u> the Examiner.		e: a)⊠ accepted or b)⊡ objec	cted to by				
Applicant may not request that any objection to the	e drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents.	nts have been received.						
3. Copies of the certified copies of the pri			ge				
application from the International Bure	au (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a lis	st of the certified copies no	t received. BEST AVAILABL	E COPY				
Attachment(s)	. —						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) v(s)/Mail Date					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 19 December 2003.		Informal Patent Application (PTO-152	r)				

Application/Control Number: 10/005,551

Art Unit: 2124

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Daniels et al

(Daniels).

Daniels discloses both an apparatus and a method for adding an N bit operand and an M

bit operand by adding respective least-significant bit sets of the two operands to produce a least-

significant bits partial sum and a carry-out followed by outputting a most-significant bits sum by

passing out the most-significant bits of the N bit operand or an offset of the most-significant bits

of the N bit operand in responsive to the most-significant bit of the set of least-significant bits of

the M bit operand and the carry-out, note the abstract. Daniels increment/decrement network in

conjunction with the temporary register functions as multiplexer, note the last line of the abstract.

Claim Rejections - 35 USC § 112

3. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

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Claim 1 is mis-descriptive because N must to greater than M if the multiplexer outputs a most-significant bit partial sum and because the selection data is a function of the most-significant bit of the set of least-significant bits of the second, not first, binary operand, note Equ. B. Also, claim 1 is incomplete because the necessary 2's complement format of the operands to be added fails to be recited. Claims 18 and 19 contain deficiencies similar to claim 1. In claim 3 the phrase "the N-M bit most-significant bits partial sum" lacks clear antecedent basis. Claims 11 and 12 are inconsistent with claim 1 relative to the selection data. Claims 14 and 15 are inconsistent with claim 1 because claim 1 requires signed binary numbers. Claims 16 and 17 are inconsistent with claim 1 because claim 1 is limited to an adder circuit. Claim 20 is incomplete because the necessary 2's complement format of the operands fails to be recited. Also in claim 20, lines 5-8 are inconsistent with lines 3-4 because the adder's (N-M)th bit internal carry bit is the most significant bit of the N-M+1 partial sum. Finally in claim 20 the body of the claim is inconsistent with the preamble because the body recites structure whereas the preamble calls for a method.

Allowable Subject Matter

4. Claim 20 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Preliminary Amendments

5. Applicants' preliminary amendments of 20 February 2002 and 05 March 2002 appear to be identical. Please clarify.

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Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (703) 305-9762. The examiner can normally be reached on M-Th from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on 703-305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 8/66-217-9197 (toll-free).

David H. Malzahn Primary Examiner Art Unit 2124